

## ABSTRACT OF THE DISCLOSURE

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An apparatus for monitoring asynchronous transfer mode cells in the communication system is proper for recognizing state information of asynchronous transfer mode cells transceiving between a base transceiver station and a base station controller. Accordingly, the apparatus enables to monitor the contents of the cell by comparing VPI/VCI of the ATM cells inputted to the multiplexing/demultiplexing part to the other VPI/VCI latched by hardware, have the cell bus RX I/F count the number of the error-occurring ATM cells by carrying out header error checks of the ATM cells inputted to the cell bus RX/ I/F itself, and find out how long the cell transferring time takes for transceiving loop is found out by transceiving the test ATM cells between the multiplexing/demultiplexing part being the ATM low rate subscriber multiplexing/demultiplexing board assembly (ALMA) and the base transceiver station.